

# 10" Fanless Full IP67 Panel PC (Intel® Celeron Bay Trail-M N2930 1.83GHz)

MODEL #: R10IB3S-67T2

Mechanical Design

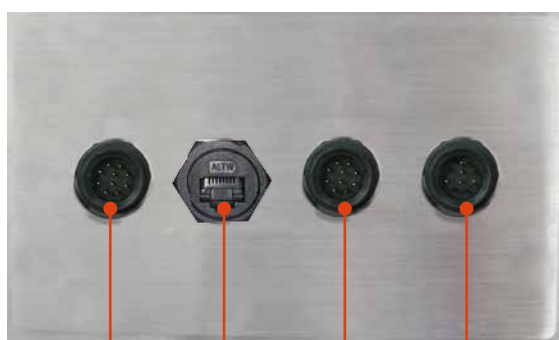


## Features:

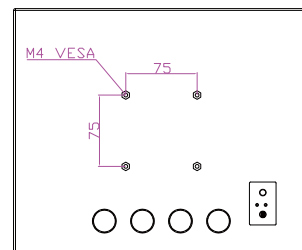
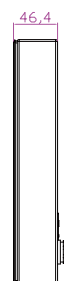
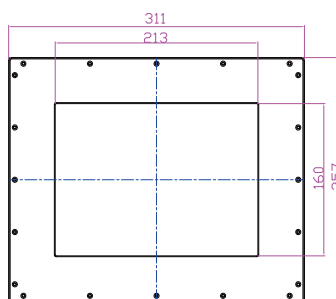
- Intel® Celeron Bay Trail-M N2930 1.83GHz Processor
- Fanless Design
- Full IP67 dust/water resistant
- Stainless Housing with Anti-Corrosion Treatment
- Optical Bonding with Anti-moisture Treatment
- 5 Wire Resistive Touch/ Anti-Reflection Protection Glass (Optional)

brushed stainless

IP67 connector / cable



2 x USB      LAN      COM2      Power



\* Note: this is a simplified drawing and some components are not marked in detail. Please contact our sales representative if you need further product information.

## System Specifications

### Panel Spec

- Size/Type : 10.4" TFT
- Resolutions : 1024x 768
- Brightness : 350 cd/m<sup>2</sup> (typ.)
- Contrast Ratio : 1200 : 1 (typ.)
- Viewing Angle : -88~88(H); -88~88(V)
- Max. Colors : 16.2M

### Dimension

- Dimension : 46.4 x 311 x 257 mm (WxLxH)
- Weight : 8.35 kg

### SBC Specifications

- Processor : Intel® Celeron Bay Trail-M N2930 1.83GHz
- BIOS : AMI UEFI BIOS
- System Chipset : Intel® Atom SoC Integrate
- System Memory : DDR3L 1066 MHz SO-DIMM Slot, default 4GB Max. 8GB
- Graphic Chipset : Intel® HD Graphics 4400
- Ethernet : 1000 Base-Tx Gigabit Ethernet Compatible
- Audio : Realtek ALC886 codec
- USB : 6 x USB ports, USB 2.0 compliant
- Serial : 2 x RS232, 1 x RS232/422/485 ports
- SSD Interface : 1 x Mini PCIe SSD, default 64GB
- Expansion Slot : 1 x Mini PCIe
- Power Input : DC-IN (Lockable, Power Jack)

\* A customized housing is needed if you would like to have the PCI expansion.

### Power Specifications

- Power Input : 12V DC IN (Lockable Power Jack)
- Power Consumption : 45 (typ.)(Max.backlight W & high CPU load)

### Accessories

- External Power Supply 50W w/power cord

### Environment Considerations

- Operating Temperature : 0 deg.C to 45 deg.C
- Operating Humidity : 30% to 90% (non condensing)

### Input/ Output Connectors

- Ethernet LAN : 1 X RJ45-10/100/1000 Mbps
- COM : 1 X RS232
- USB : 2 x USB
- Power : 1 X 12VDC

### Order Options

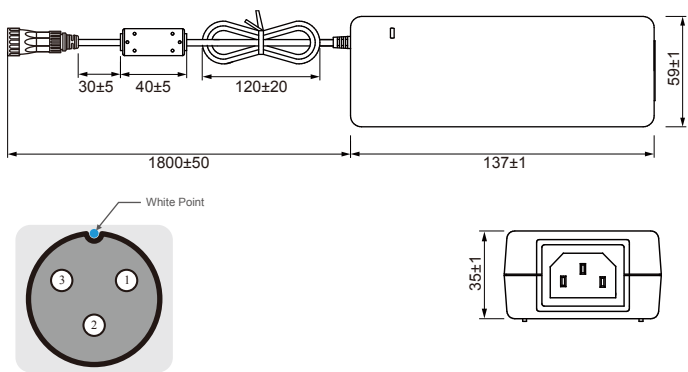
| SBC                            | PANEL PC                                                                            |
|--------------------------------|-------------------------------------------------------------------------------------|
| RAM : SODIMM DDR3L 2GB/4GB/8GB | Mechanical : Stainless Chassis                                                      |
| Storage : Mini PCIe SSD        | Touch : 5 Wires Resistive (Optional)                                                |
|                                | OS : Windows 7 embedded / Windows 8 embedded / Windows 10 IoT Enterprise (Optional) |

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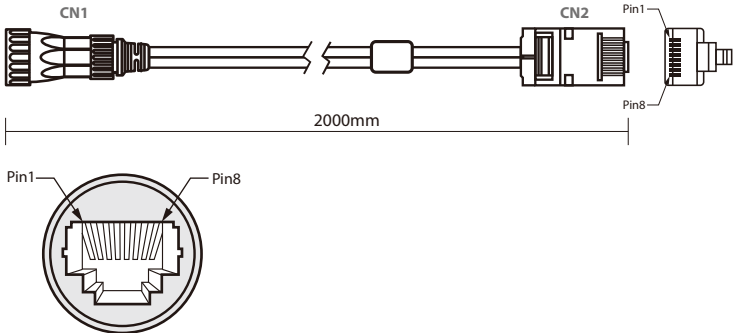
Pin Assignment of cables

Power Cable



| Pin No. | Symbols | Color |
|---------|---------|-------|
| CN1-3   | GND     | Black |
| CN1-2   | shield  |       |
| CN1-1   | VCC     | White |

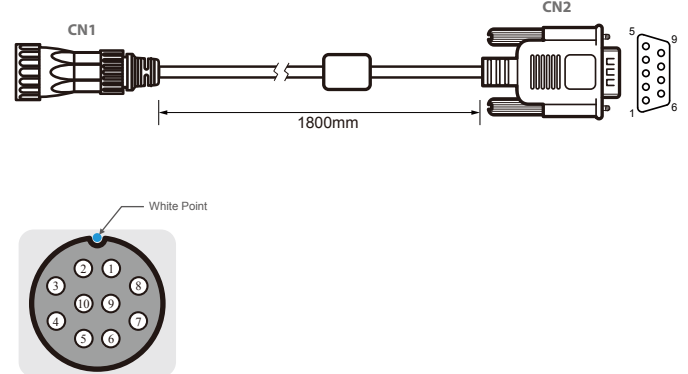
LAN Cable



| Plug | Wire Color     | Conn. |
|------|----------------|-------|
| 1    | Orange / White | 1     |
| 2    | Orange         | 2     |
| 3    | Green / White  | 3     |
| 4    | Blue           | 4     |
| 5    | Blue / White   | 5     |
| 6    | Green          | 6     |
| 7    | Brown / White  | 7     |
| 8    | Brown          | 8     |

Twist  
Twist  
Twist

Serial Cable

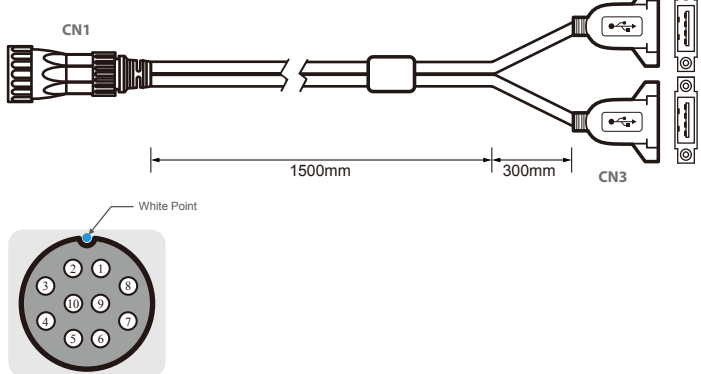


| Pin No. | Symbols  | Color  |
|---------|----------|--------|
| CN1-1   | DCD-CON2 | Green  |
| CN1-2   | DSR-CON2 | Brown  |
| CN1-3   | RXD-CON2 | Red    |
| CN1-4   | RTS-CON2 | Orange |
| CN1-5   | TXD-CON2 | Blue   |
| CN1-6   | CTS-CON2 | White  |
| CN1-7   | DTR-CON2 | Purple |
| CN1-8   | RI-CON2  | Yellow |
| CN1-9   | GND-CON2 | Black  |
| CN1-10  | NC       |        |

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| Pin No. | Symbols  | Color  |
|---------|----------|--------|
| CN2-1   | DCD-CON2 | Green  |
| CN2-6   | DSR-CON2 | Brown  |
| CN2-2   | RXD-CON2 | Red    |
| CN2-7   | RTS-CON2 | Orange |
| CN2-3   | TXD-CON2 | Blue   |
| CN2-8   | CTS-CON2 | White  |
| CN2-4   | DTR-CON2 | Purple |
| CN2-9   | RI-CON2  | Yellow |
| CN2-5   | GND-CON2 | Black  |
| CN2-10  | NC       |        |

USB Cable



| Pin No. | Symbols | Color |
|---------|---------|-------|
| CN1-1   | VCC     | RED   |
| CN1-2   | VCC     | RED   |
| CN1-3   | D-      | WHITE |
| CN1-4   | D-      | WHITE |
| CN1-5   | D+      | GREEN |
| CN1-6   | D+      | GREEN |
| CN1-7   | GND     | BLACK |
| CN1-8   | GND     | BLACK |
| CN1-9   | Braid   |       |

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| Pin No. | Symbols | Color |
|---------|---------|-------|
| CN2-1   | VCC     | RED   |
| CN3-1   | VCC     | RED   |
| CN2-2   | D-      | WHITE |
| CN3-2   | D-      | WHITE |
| CN2-3   | D+      | GREEN |
| CN3-3   | D+      | GREEN |
| CN2-4   | GND     | BLACK |
| CN3-4   | GND     | BLACK |

twisted pair  
twisted pair